ELSEVIER

Journal of Molecular Liquids 69 (1996) vi–vii

journal of MOLECULAR LIQUIDS

Special Issue of the JOURNAL OF MOLECULAR LIQUIDS in honour of Professor Brendan K.P. Scaife

Preface ix

T.S. Perova and J.K. Vij
"Low frequency vibrational spectroscopy of highly viscous and highly polar liquids" 1

J.K. Vij
"Primary and secondary relaxations in aliphatic alcohols: Complex dielectric permittivity spectra of 5-methyl 2-hexanol" 19

A. Morita
"Diffusion of a particle under a square-well potential" 31

P.C. Fannin
"On the use of dielectric formalism in the representation of ferrofluid data" 39

W.T. Coffey and L.J. Geoghegan
"Differential recurrence relations for the Fokker–Planck equation for magnetic after-effect and dielectric relaxation in non axially symmetric potentials" 53

W.G. Scaife
"Interpretation of dielectric spectroscopy measurements of liquid crystal at frequencies of around 5–500Hz" 83

F.M. Coyle, S.J. Martin and V.J. McBrierty
"Dynamics of water molecules in polymers" 95

Yu. P. Kalmykov
"Rotational Brownian motion in an external potential: The Langevin equation approach" 117

ELSEVIER

Journal of Molecular Liquids 69 (1996) vi–vii

journal of MOLECULAR LIQUIDS

Special Issue of the JOURNAL OF MOLECULAR LIQUIDS in honour of Professor Brendan K.P. Scaife

Preface ix

T.S. Perova and J.K. Vij
"Low frequency vibrational spectroscopy of highly viscous and highly polar liquids" 1

J.K. Vij
"Primary and secondary relaxations in aliphatic alcohols: Complex dielectric permittivity spectra of 5-methyl 2-hexanol" 19

A. Morita
"Diffusion of a particle under a square-well potential" 31

P.C. Fannin
"On the use of dielectric formalism in the representation of ferrofluid data" 39

W.T. Coffey and L.J. Geoghegan
"Differential recurrence relations for the Fokker–Planck equation for magnetic after-effect and dielectric relaxation in non axially symmetric potentials" 53

W.G. Scaife
"Interpretation of dielectric spectroscopy measurements of liquid crystal at frequencies of around 5–500Hz" 83

F.M. Coyle, S.J. Martin and V.J. McBrierty
"Dynamics of water molecules in polymers" 95

Yu. P. Kalmykov
"Rotational Brownian motion in an external potential: The Langevin equation approach" 117

Ghoneim, G. Turky, G. Klages and M. Stockhausen
"Dielectric properties of some ternary mixtures of normal alcohols and aliphatic diols with heptane".....133

T.A. Novskova and V.I. Gaiduk
"Constant field model: Molecular dynamics and dielectric spectra".....143

G. Onori and A. Santucci
"Dynamical and structural properties of water/alcohol mixtures".....161

D.G. Frood and T.J. Gallagher
"Space-charge dielectric properties of water and aqueous electrolytes".....183

S.v. Hornhardt, M. Stockhausen, H. Herba, J. Jadżyn,
G. Czechowski and B. Żywucki
"Static and dynamic dielectric properties of aminoalcohols in their pure liquid state and in mixtures with dioxane".....201

K. Pasterny and R. Wrzalik
"A statistical model with a single step intrinsic memory - An application to the analysis of dielectric relaxation".....211

M.G. Parthun, D.A. Wasylyshyn and G.P. Johari
"Comparing the time invariant and time-variant dielectric relaxation data simulated for a makromolecule's growth".....219

A. Kocot and R. Wrzalik
"Raman scattering study of the orientational dynamics of the methyl bromide".....235

B. Schiener, A. Loidl, R.V. Chamberlin and R. Böhmer
"Dielectric study of supercooled triphenylphosphite and butyronitrile: Comparison with a mesoscopic model".....243

J. Gilchrist
"Nonlinear dielectric properties of glasses at low temperatures".....253

C.G. Lyons
"A simple equation of state for dense fluids".....269

D.A. Wasylyshyn, M.G. Parthun and G.P. Johari
"Physics of linear-chain and network polymerization by dielectric spectroscopy".....283

S. Havriliak Jr. and S.J. Havriliak
"Consequences of applying Scaife's remarks to the comparison of dielectric and viscoelasticdispersions in polymers".....305